

5     **HANDOFF MECHANISMS TO SUPPORT REAL-TIME DELAY-CRITICAL  
SERVICES IN A NEXT GENERATION NETWORK**

**Abstract**

10       A next generation wireless data system and method for handoff from a node in  
a network is presented. The system includes a core network (CN) and a source and a  
target radio network subsystem (RNS). The interface between the RNSs is enhanced  
to reduce unnecessary relay of messaging through the CN and thus will reduce  
traversing delays as well as the resources utilized in message processing. Two  
15      separate methods are proposed for handing off the data traffic to the target RNS at the  
CN packet processing node. These methods are a multi-cast function that  
concurrently sends data to the source RNS and the target RNS, and a suspend/resume  
function which suspends the data flow towards the source RNS and resumes the flow  
towards the target RNS.

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